

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	
International Fire Code	2006	ADA Accessibility	
International Energy		Guidelines	
Conservation Code	2006		

A. Occupancy and Group: I2

Change in Use: Yes No X Mixed Occupancy: Yes No X  
Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: N/A Design Wind Speed: N/A mph

C. Type of Construction (circle one):

I

I

II

III

III

IV

V

V

A

B

A

B

HT

A

B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):  
North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: N0 Nonseparated Uses: N0

F: Sprinklers:  
Required: Provided: X Type of Sprinkler System: EXISTING

G: Number of Stories: 1 Building Height: 16'

H: Actual Area per Floor (square feet): 22000

I: Tabular Area: N/A EXISTING

J: Area Modifications: N/A

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	0	
Partitions - Permanent	0		Fire Walls	0	
Fire Barriers	0		Fire Partitions	0	
	0		Smoke Partitions	0	

L. Design Occupant Load: 183

Exit Width Required: 27 Exit Width Provided: 144

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required 1 PER ROOM Provided EXISTING

b) Lavatories - Required 1 PER ROOM Provided EXISTING

c) Bath Tubs or Showers: 1 PER 15 PEOPLE

d) Drinking Fountains: 1 PER 100 PEOPLE Service Sinks: 1 PER FLOOR

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:

a) High Rise Requirements.

b) Atriums.

c) Performance Based Criteria.

d) Means or Egress Analysis.

e) Fire Assembly Locator Sheet.

f) Exterior and Interior Accessibility Route.

g) Fire Stopping, Including Tested Design Number.

UTAH STATE DEVELOPMENTAL  
CENTER DRYER RELOCATION  
DFCM# 08311410

State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION  
AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

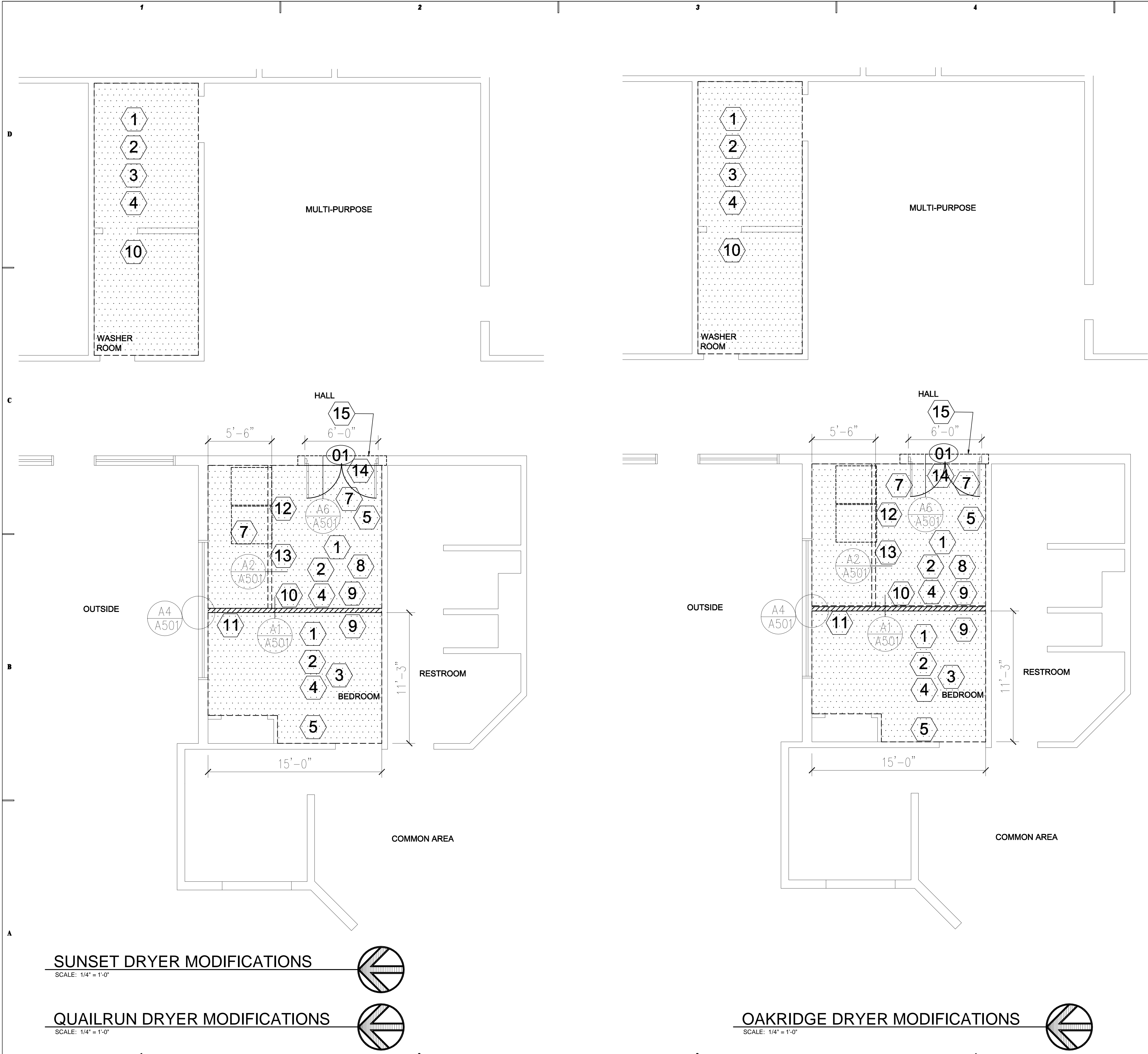
DRAWING INDEX:

M000- TITLE SHEET  
A101- OAKRIDGE & QUAILRUN ARCHITECTURAL PLANS  
A102- RAINTREE & WILLOW CREEK ARCHITECTURAL PLANS  
A501- ARCHITECTURAL DETAILS & SCHEDULES  
M001- MECHANICAL GENERAL NOTES AND LEGEND  
MD101- OAKRIDGE AND QUAILRUN MECHANICAL PLAN  
MD102- RAINTREE AND WILLOW CREEK MECHANICAL PLAN  
ME101- OAKRIDGE AND QUAILRUN MECHANICAL PLAN  
ME102- RAINTREE AND WILLOW CREEK MECHANICAL PLAN  
ME501- MECHANICAL DETAILS  
ME601- MECHANICAL SCHEDULES

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EMAIL: excellence@whw-engineering.com





**SHEET NOTES**

- 1 PATCH AND REPAIR EXISTING WALLS AND CEILING DUE TO NEW CONSTRUCTION.
- 2 PAINT WALLS AND CEILING. COORDINATE COLOR WITH BUILDING TENANT.
- 3 PATCH AND REPAIR EXISTING FLOORING. COORDINATE WITH BUILDING TENANT.
- 4 REFER TO DRAWING MD101 & 102 FOR DEMOLITION.
- 5 RE-CIRCUIT EXISTING LIGHT SWITCH FOR NEW ROOM LAYOUT.
- 6 REMOVE AND DISPOSE EXISTING FLOORING AND BASE BOARD DOWN TO CONCRETE. PREP CONCRETE FLOOR FOR NEW EPOXY PAINT FINISH.
- 7 NEW ROOF PENETRATIONS FOR MECHANICAL EQUIPMENT: PROVIDE FLASHING AT CURBS PER ROOF MANUFACTURERS STANDARD DETAILS TO MAINTAIN WARRANTY OF EXISTING ROOF SYSTEM.
- 8 PROVIDE EPOXY PAINT FLOORING COORDINATE WITH BUILDING TENANT FOR COLOR AND FINISH.
- 9 PROVIDE NEW RUBBER BASE BOARD TO MATCH EXISTING SIZE, STYLE AND COLOR.
- 10 SHADED AREA INDICATE AREA OF CONSTRUCTION .
- 11 CENTER NEW WALL ON WINDOW MULLION
- 12 NEW DRYERS REFER TO MECHANICAL DRAWINGS.
- 13 LINE OF CEILING DROP ABOVE.
- 14 STEEL LINTEL AT NEW MASONRY OPENING
- 15 SAW CUT OPENING IN MASONRY WALL FOR NEW DOOR. REMOVE AND DISPOSE OF MATERIAL. RELOCATE ANY ELECTRICAL DEVICES & CONDUIT THAT MAY BE IN THE WAY.

- GENERAL NOTE:**
1. THIS PAGE CONSISTS OF 2 AREAS IN 3 SEPARATE BUILDINGS.
  2. REFER TO DRAWING ME101 FOR BUILDING KEY PLAN.



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**PROJECT NAME & ADDRESS**

**UTAH STATE  
DEVELOPMENT  
CENTER DRYER  
RELOCATION**  
DFCM# 08311410

AMERICAN FORK, UTAH

MARK	DATE	REVISION

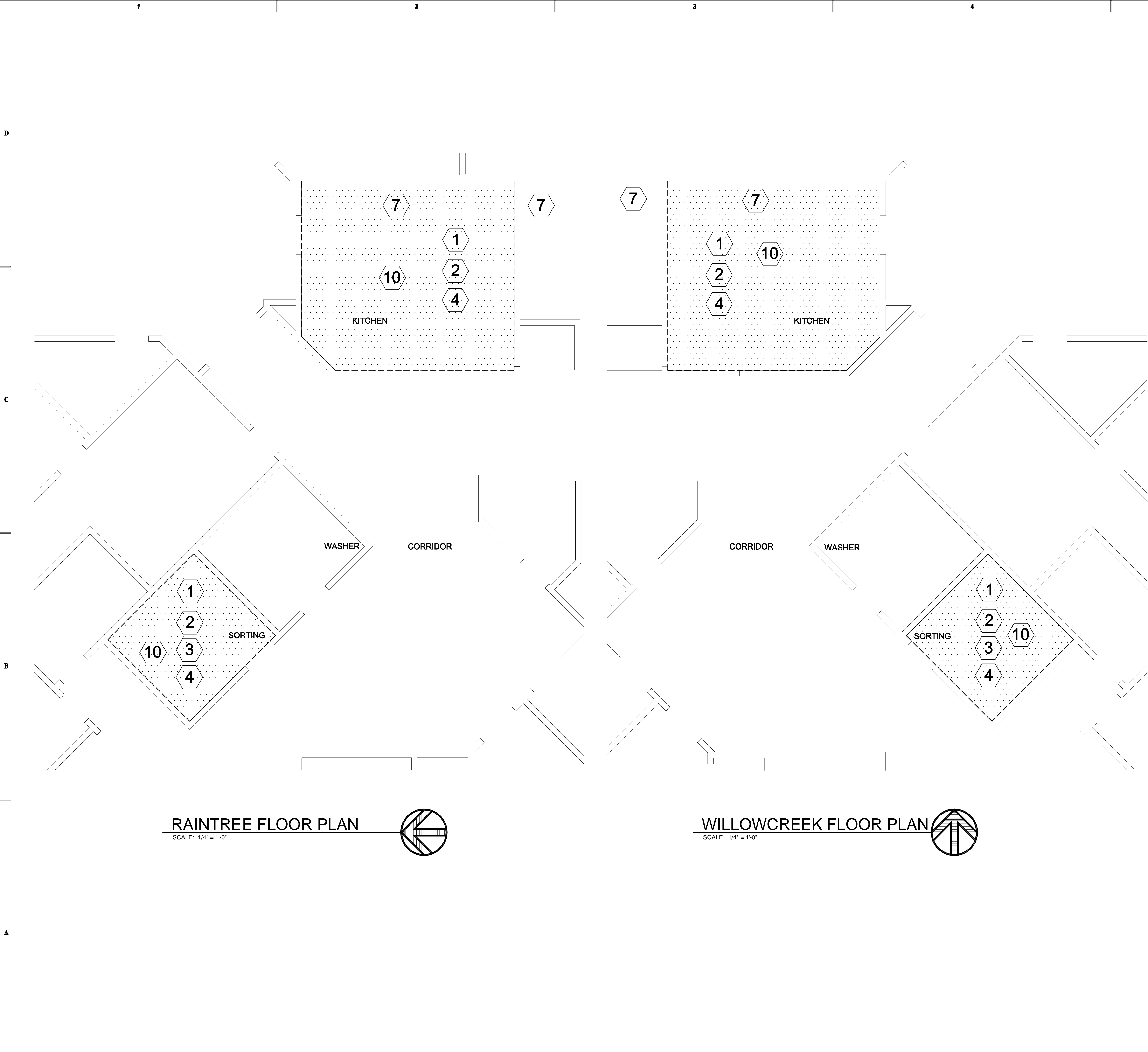
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DRAWN BY:  
**FLT**  
CHECKED BY:  
**FLT**  
DATE:  
**12/12/08**  
WHW JOB NO.:  
**06039**

SHEET TITLE

**OAKRIDGE AND QUAILRUN  
ARCHITECTURAL  
PLAN**

SHEET NO.

**A101**



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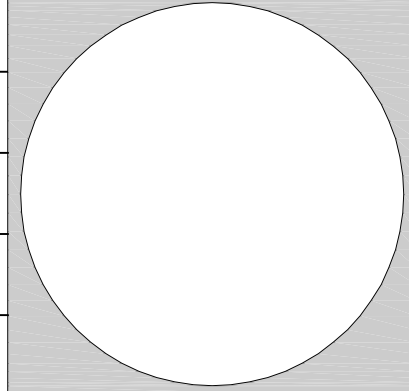
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**UTAH STATE DEVELOPMENT CENTER DRYER RELOCATION**  
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**RAINTREE AND WILLOW CREEK ARCHITECTURAL PLAN**

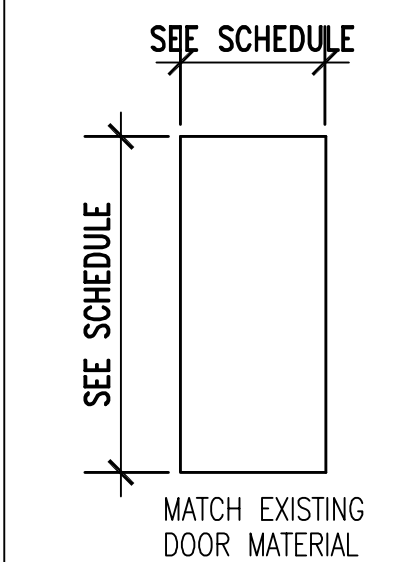
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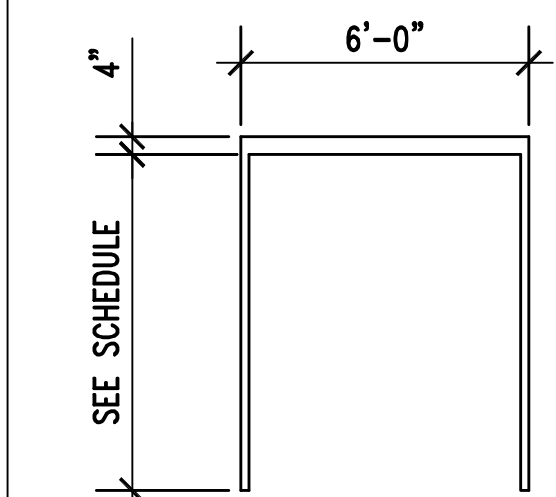


DOOR TYPES	
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FRAME TYPES
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TYPE D-1

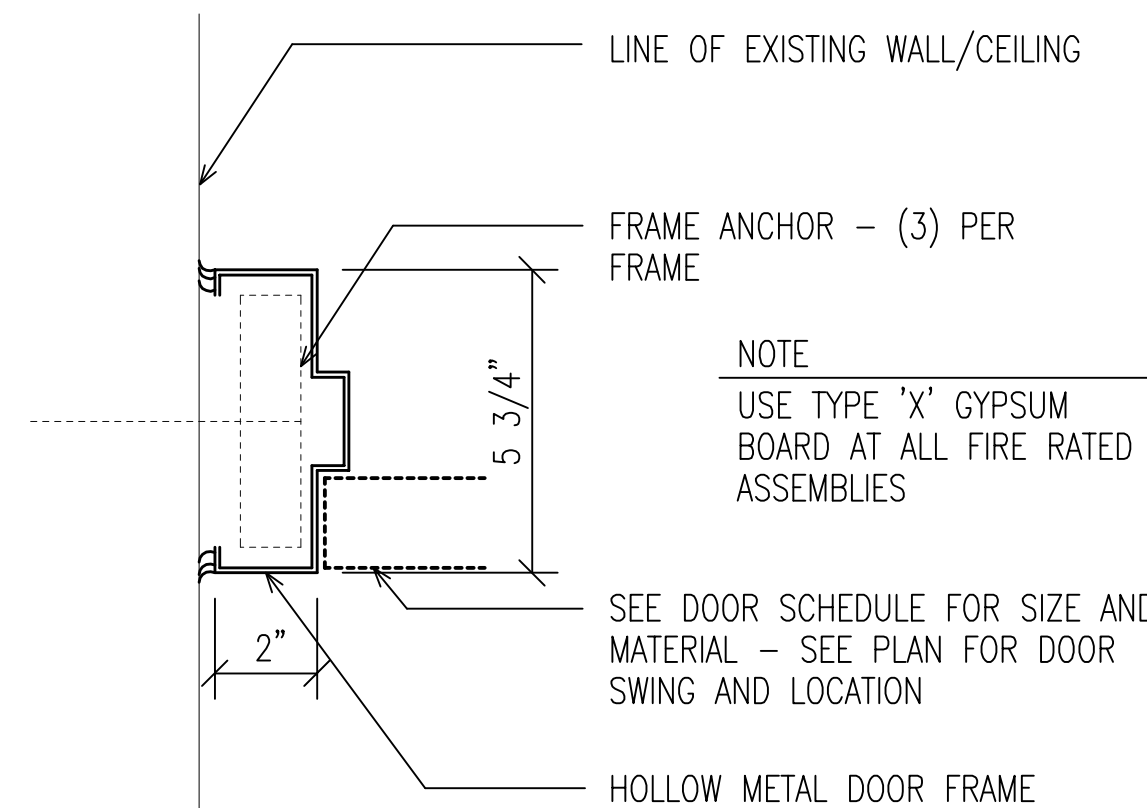


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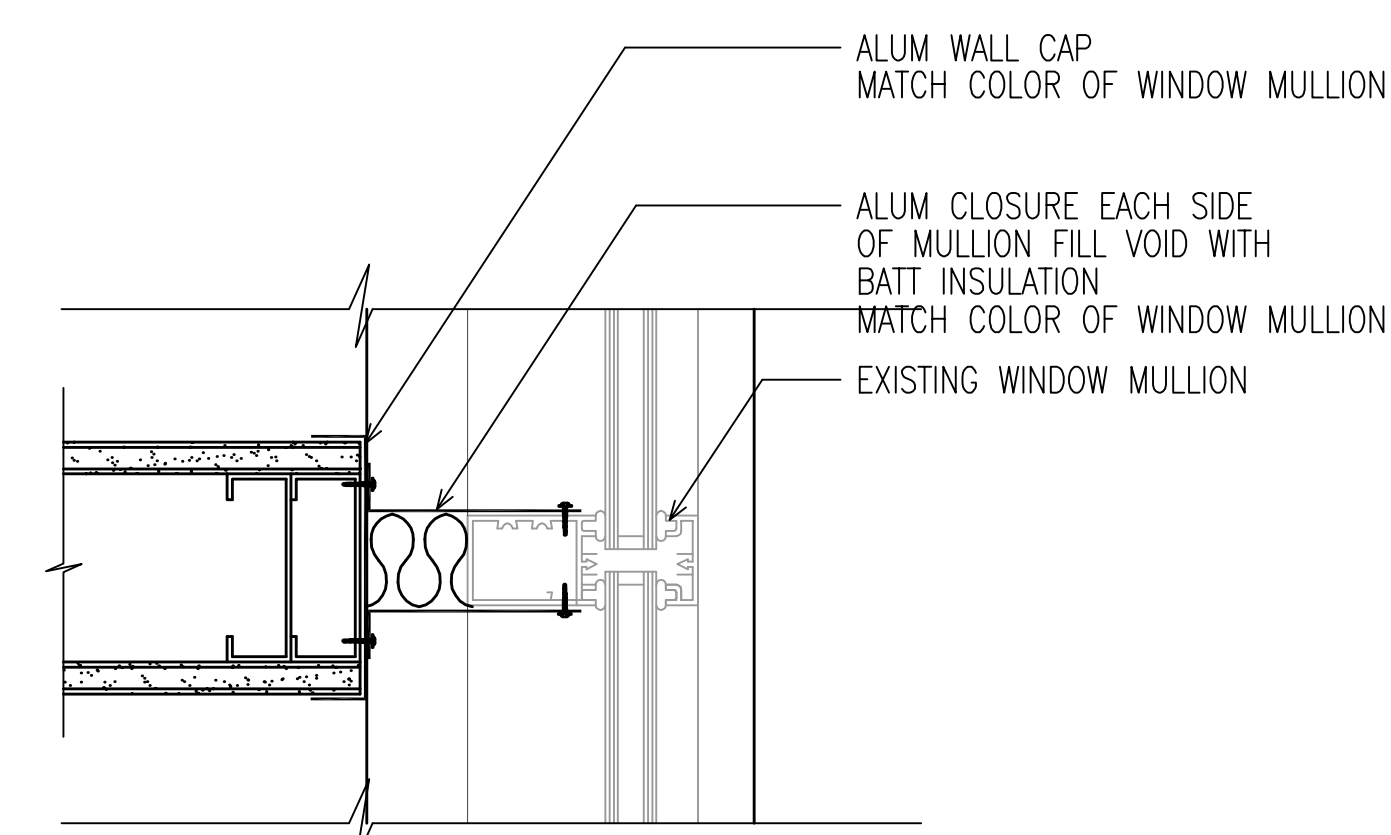
HARDWARE SCHEDULE	
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HARDWARE GROUP 1  
COORDINATE WITH USDC STANDARD FOR HARDWARE MFR, STYLE, FINISH AND KEYING.

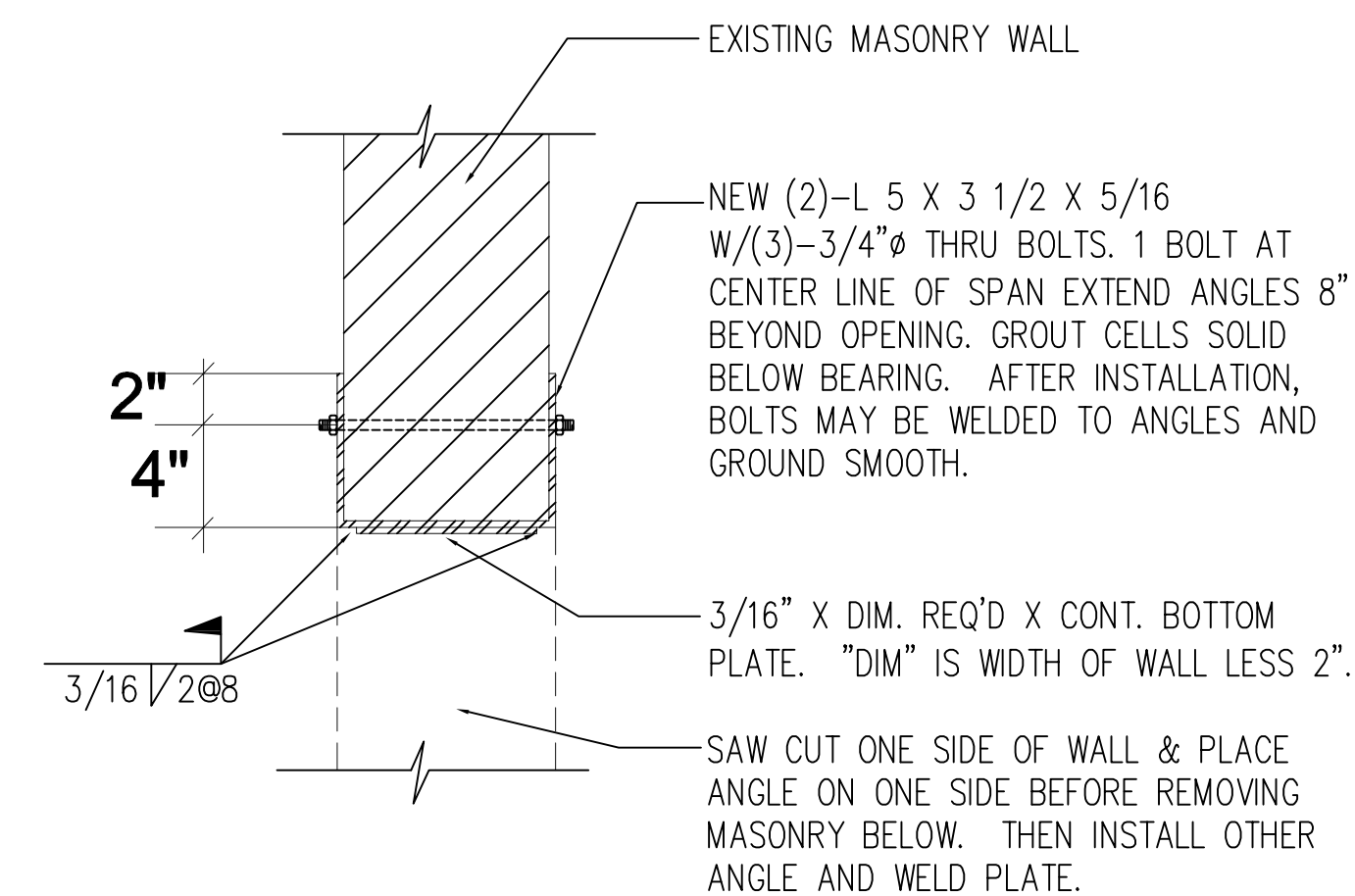
3	PAIR	BUTTS	BB5000	4.5 X 4.5	626	BOMMER
1	EACH	LOCKSET	L-SERIES	ND50PD RHO	626	SCHLAGE (WITH "BEST CORE" COORDINATE WITH USDC STANDARD).
2	EACH	FLUSH BOLTS	1358-12"		626	QUALITY
2	EACH	CLOSER	P4041	EDA		LCN
2	EACH	STOP	307		626	QUALITY

[illegible]

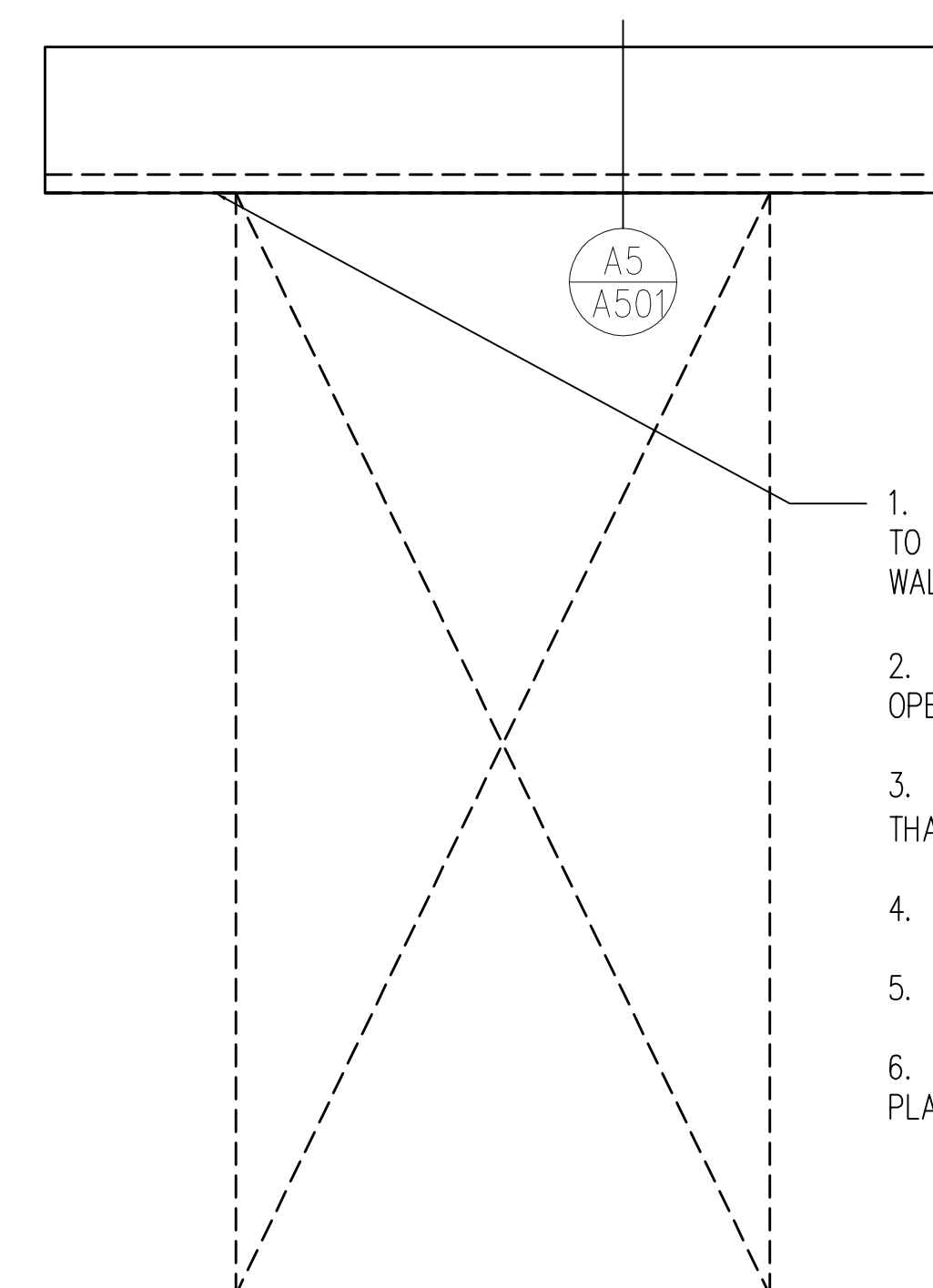
**A3** WALL JAMB /HEAD DETAIL  
SCALE: NONE



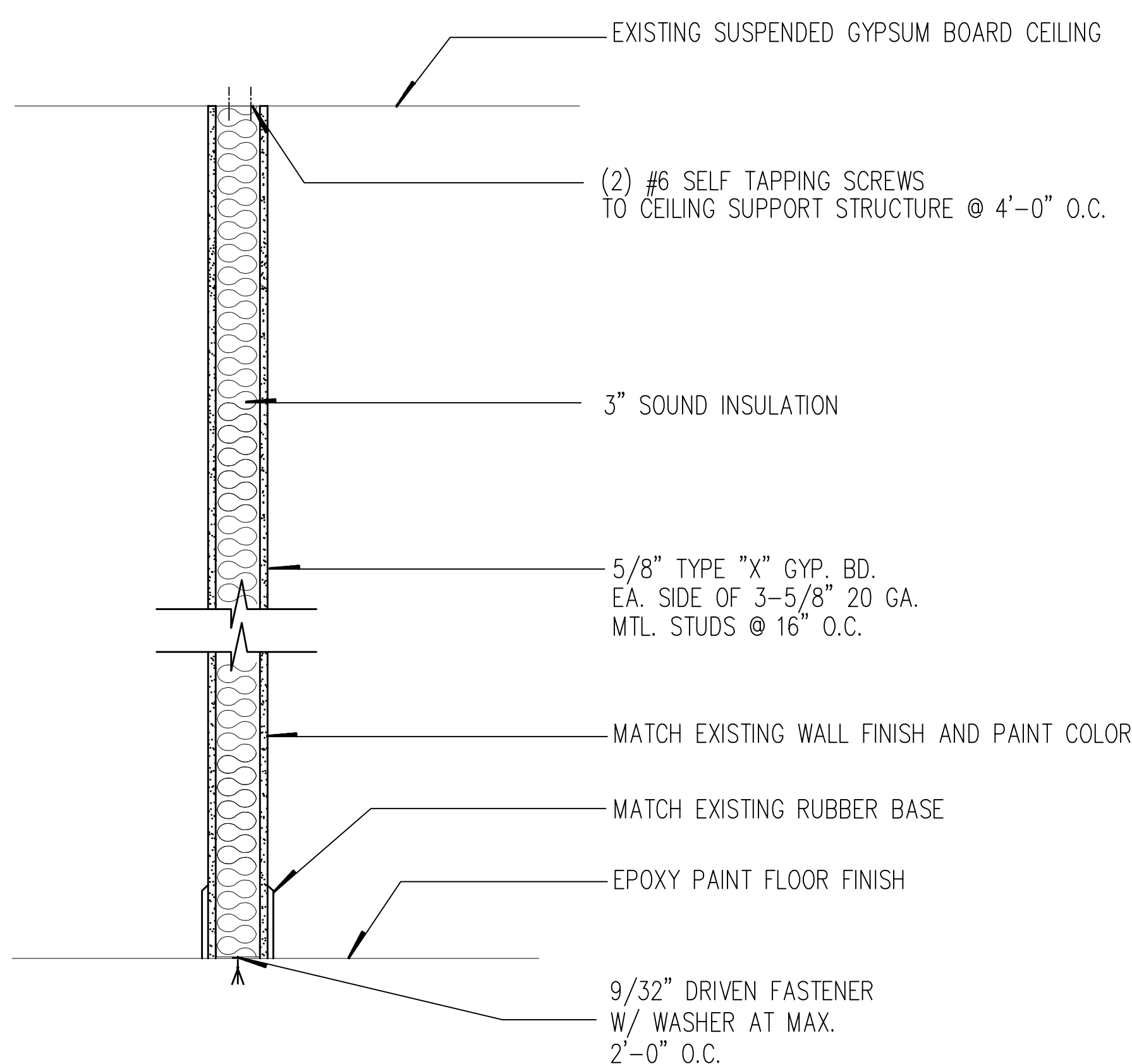
**A4 WALL AT WINDOW DETAIL**  
SCALE: NONE



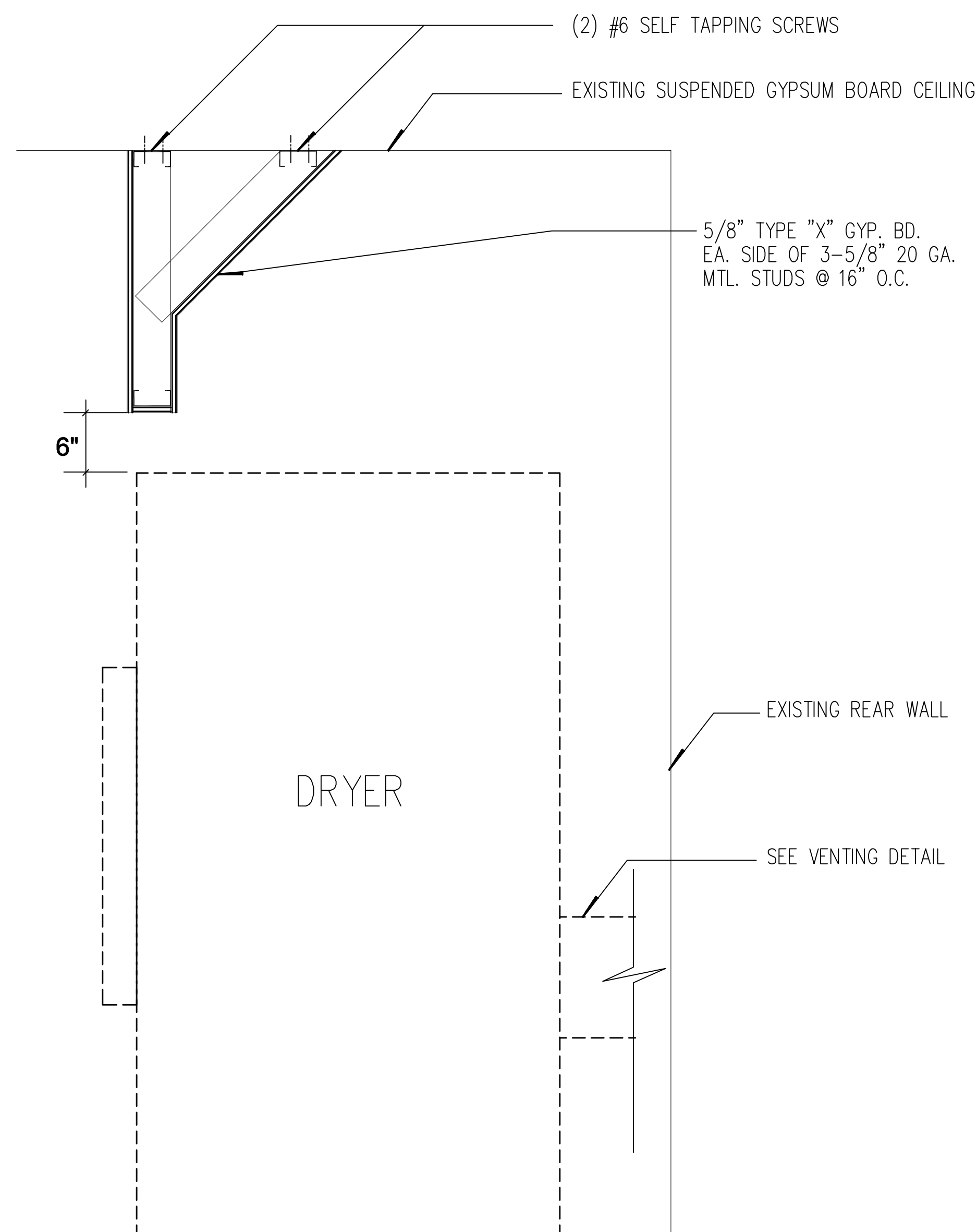
**A5** MASONRY LINTEL DETAIL



**A6** **PROCEDURE FOR MAKING DOOR OPENING.**



**A1 WALL SECTION**  
SCALE: NONE



**A2 DRYER ENCLOSURE DETAIL**  
SCALE: NONE

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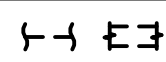


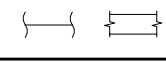

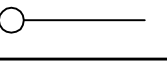
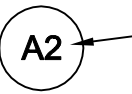
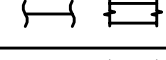
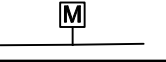
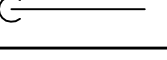
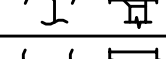
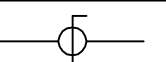
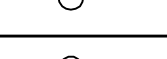
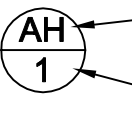
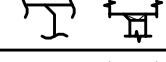

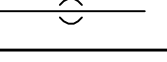
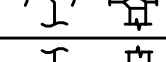
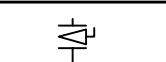
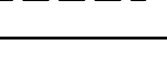

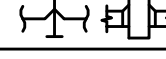
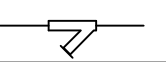
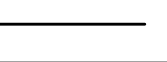
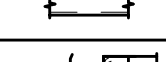
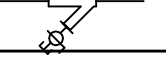
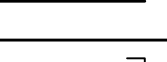

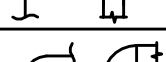
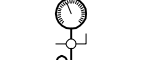

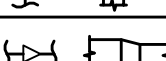
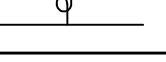

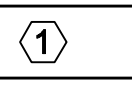
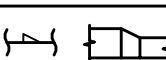

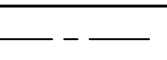
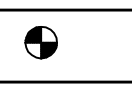
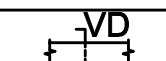

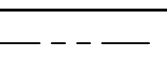




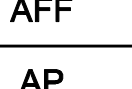




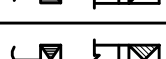


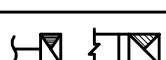

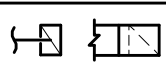
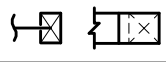

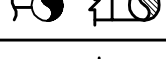
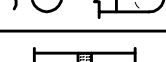
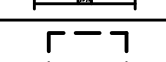
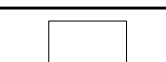




## ARCHITECTURAL DETAILS & SCHEDULES

SHEET NO.

# A501



MECHANICAL LEGEND

SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY			AIR SIDE			WET SIDE			WET SIDE CONT		
		SECTION LETTER DESIGNATION			EXISTING AIR DUCT TO BE REMOVED			UNION			PITCH DOWN
		SECTION DRAWN ON THIS SHEET			EXISTING AIR DUCT TO REMAIN			MANUAL ACTUATOR (BALL, BUTTERFLY, NEEDLE, ETC. VALVES)			ELBOW UP
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			NEW AIR DUCT				MOTORIZED CONTROL		
					RECT. TO RECT. AIR DUCT TAKE-OFF			BV	BALL VALVE		
		MECHANICAL EQUIPMENT DESIGNATION			RECT. TO RND. AIR DUCT TAKE-OFF			PRV	PRESSURE RELIEF VALVE		
		EQUIPMENT ITEM DESIGNATION			RND. TO RND. AIR DUCT TAKE-OFF				MANUAL AIR VENT		
		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW			RECT. TAKE-OFF AT END OF MAIN				STRAINER		
					LINED DUCT				STRAINER W/ PLUGGED BLOW OFF		
		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRE			VANED ELBOW				PRESSURE GAUGE AND GAUGE COCK - STEAM		
					RADIUS ELBOW				FLOAT & THERMOSTATIC STEAM TRAP		
		REVISION DESIGNATOR AND NUMBER			CONCENTRIC DUCT TRANSITION				ECCENTRIC REDUCER		CW
		KEY NOTE DESIGNATOR AND NUMBER			ECCENTRIC DUCT TRANSITION				DIRECTION OF FLOW		HW
	POC	POINT OF CONNECTION		VD	VOLUME DAMPER				BUCKET TRAP		DR
	POR	POINT OF REMOVAL			SUPPLY AIR DIFFUSER					LPS	LOW PRESSURE STEAM
AFF		ABOVE FINISHED FLOOR			RETURN AIR, FRESH AIR					LPR	LOW PRESSURE STEAM RETURN
AP		ACCESS PANEL			EXHAUST GRILLE					MPS	MEDIUM PRESSURE STEAM
	EL.	CENTER LINE ELEVATION			RETURN OR OUTSIDE AIR DUCT UP					MPR	MEDIUM PRESSURE STEAM RETURN
GC		GENERAL CONTRACTOR			SUPPLY DUCT UP						
MC		MECHANICAL CONTRACTOR			EXHAUST AIR INTAKE UP						
CC		CONTROL CONTRACTOR			RETURN OR OUTSIDE AIR DUCT DOWN						
EC		ELECTRICAL CONTRACTOR			SUPPLY DUCT DOWN						
NIC		NOT IN CONTRACT			EXHAUST DUCT DOWN						
NTS		NOT TO SCALE			ROUND DUCT UP						
					ROUND DUCT DOWN						
					FLEXIBLE DUCT CONNECTION						
					EXISTING EQUIPMENT TO BE REMOVED						
					EXISTING EQUIPMENT TO REMAIN						
					NEW EQUIPMENT						
			SA		SUPPLY AIR						
			RA		RETURN AIR						
			EA		EXHAUST AIR						

GENERAL NOTES:

- G-1

MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DISCIPLINES.
- A

EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.
- B

THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.
- C

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.
- D

THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.
- E

ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.
- G-2

ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. CONTRACTOR SHALL NOT PERFORM ANY ALTERATIONS UNTIL APPROVED BY ENGINEER.
- G-3

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- G-4

THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.
- G-5

THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- G-6

SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.
- G-7

PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.
- G-8

PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.
- G-9

THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
- G-10

C.F.M. LISTED IS ACTUAL AIR.
- G-11

SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.
- G-12

CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.
- G-13

ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC AND IPC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.
- G-14

MECHANICAL CONTRACTOR SHALL SUB-CONTRACT THE ELECTRICAL PORTION OF THIS CONTRACT TO A DESIGN-BUILD ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL FOLLOW SPECIFICATION AND INSTALL THE ELECTRICAL PER NEC. ELECTRICAL DESIGN -BUILD CONTRACTOR SHALL MEET WITH THE ENGINEER PRIOR TO ANY ELECTRICAL INSTALLATION FOR APPROVAL OF CONTRACTORS DESIGN INTENT.



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PROJECT NAME & ADDRESS

**UTAH STATE  
DEVELOPMENT  
CENTER DRYER  
RELOCATION**

DFCM# 08311410

AMERICAN FORK, UTAH

MARK	DATE	REVISION

PROJECT MANAGER:  
**SLW**  
DRAWN BY:  
**STAFF**  
CHECKED BY:  
**SLW**  
DATE:  
**12/12/08**  
WHW JOB NO.:  
**06039**

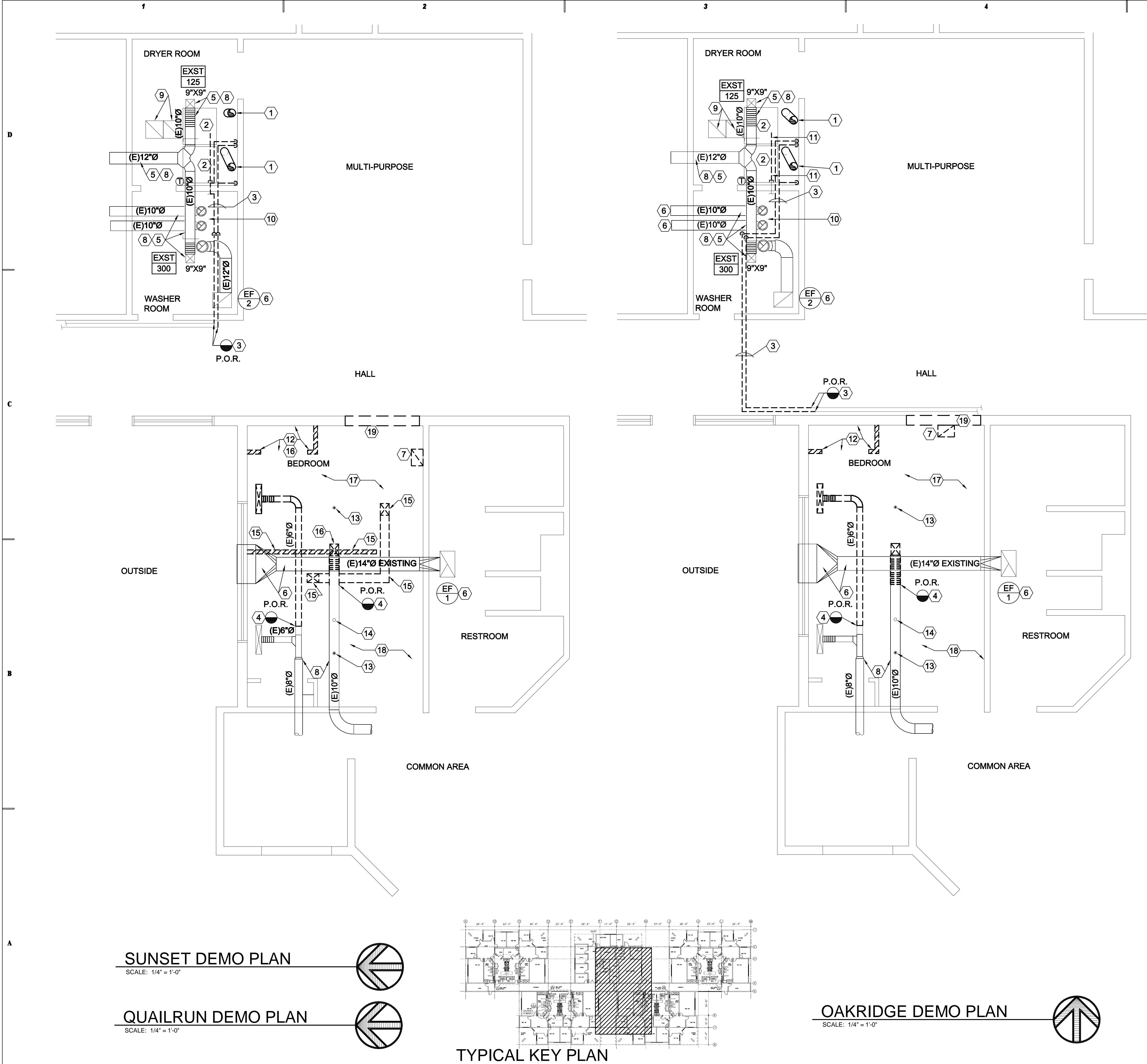
SHEET TITLE

**MECHANICAL GENERAL  
NOTES AND LEGEND**

SHEET NO.

**M001**





## SHEET NOTES

- 1 REMOVE EXISTING DRYER VENTS TO A POINT JUST UNDER ROOF. VENT PIPING AND PENETRATION THRU ROOF SHALL REMAIN. CAP VENT BELOW AND ABOVE ROOF.
- 2 REMOVE EXISTING DRYERS AND RELOCATE TO NEW LOCATION SHOWN ON SHEET ME101. DISASSEMBLE AS REQUIRED TO FIT THRU DOORS.
- 3 REMOVE EXISTING STEAM AND CONDENSATE PIPING VALVES ETC. SERVING EXISTING DRYERS BACK TO THIS POINT. FIELD VERIFY LOCATION.
- 4 REMOVE EXISTING DUCTWORK BACK TO THIS LOCATION. SEE SHEET ME101 FOR RECONNECTION. FIELD VERIFY.
- 5 EXISTING DUCTWORK, DIFFUSERS, AND GRILLES SHALL REMAIN.
- 6 EXISTING EXHAUST FAN AND DUCTWORK SHALL REMAIN.
- 7 REMOVE EXISTING R.A. CEILING GRILLE.
- 8 EXISTING SUPPLY AIR SHALL REMAIN IN ALL AREAS EXCEPT WHERE SHOWN.
- 9 EXISTING CEILING RETURN AIR GRILLE SHALL REMAIN.
- 10 EXISTING WASHERS SHALL REMAIN.
- 11 REMOVE EXISTING WATER PIPING, HOSES, PRV VALVE, SHUT-OFF VALVES ETC. CAP ABOVE DRYER NEXT TO WALL.
- 12 REMOVE EXISTING CLOSET WALL, DOORS, RODS ETC.
- 13 EXISTING FIRE SPRINKLER HEAD SHALL REMAIN.
- 14 EXISTING SMOKE DETECTOR SHALL REMAIN.
- 15 SUNSET ONLY.
- 16 QUAILRUN ONLY.
- 17 REMOVE FLOORING. SEE ARCH SHEET FOR DESCRIPTION.
- 18 EXISTING FLOOR TO REMAIN IN BEDROOM. SEE ARCH SHEET FOR NEW WALL LOCATION.
- 19 REMOVE EXISTING MASONRY WALL FOR NEW DOUBLE DOORS. PROVIDE STEEL ANGLE LINTEL AT NEW DOOR OPENING.

### GENERAL NOTE:

1. PHASE ONE BUILDING DEMOLITION AND REMODEL TO BE COMPLETE BEFORE MOVING ON TO THE NEXT. ONLY ONE BUILDING IS TO BE WITHOUT DRYERS AT ONE TIME.
2. THIS PAGE CONSISTS OF 3 PROJECTS IN 3 SEPARATE BUILDINGS.



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## PROJECT NAME & ADDRESS

**UTAH STATE  
DEVELOPMENT  
CENTER DRYER  
RELOCATION**

DFCM# 08311410

AMERICAN FORK, UTAH

MARK	DATE	REVISION
------	------	----------

PROJECT MANAGER:	SLW
DRAWN BY:	STAFF
CHECKED BY:	SLW
DATE:	12/12/08
WHW JOB NO.:	06039

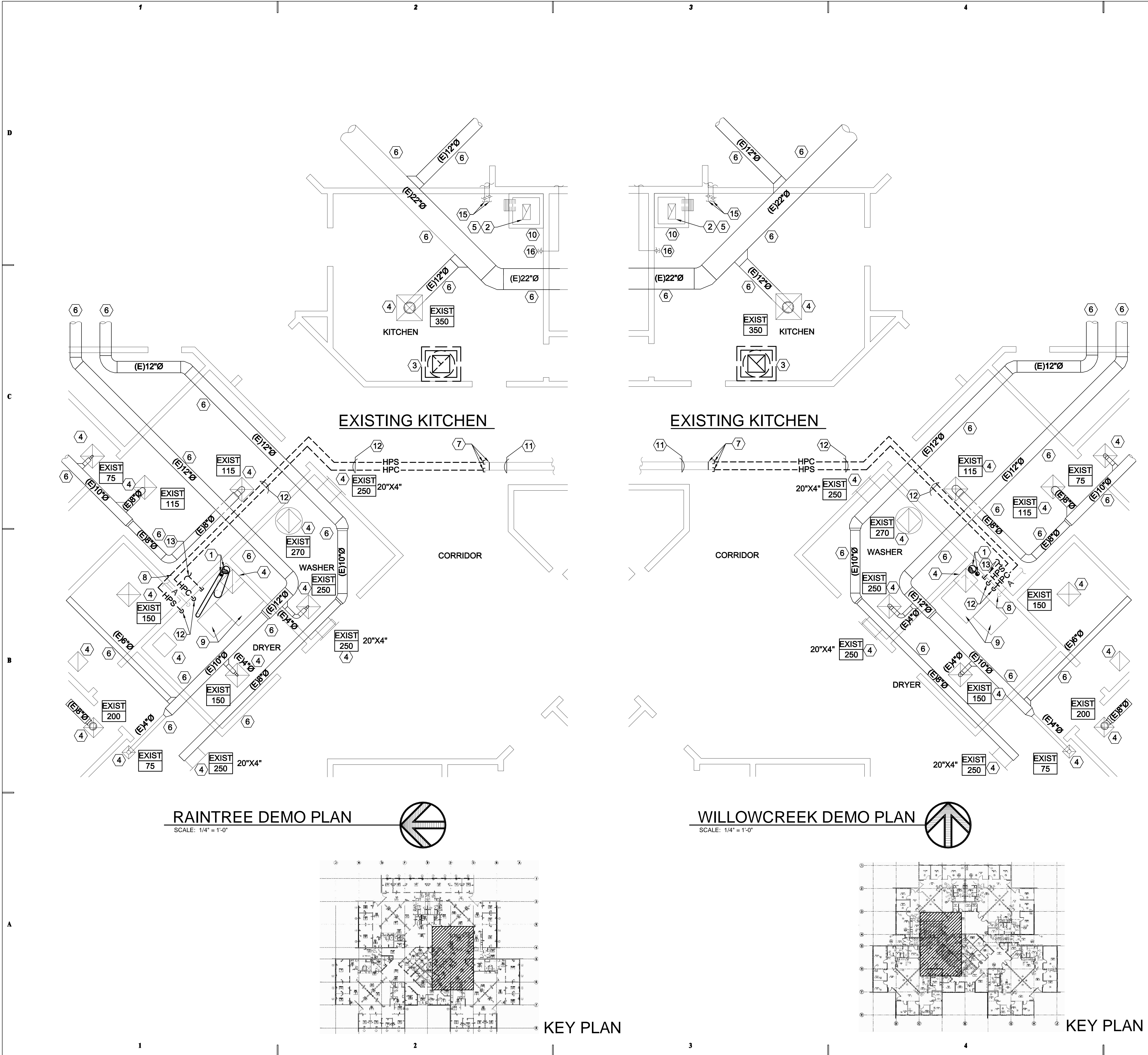
SHEET TITLE

**OAKRIDGE AND QUAILRUN  
MECHANICAL  
PLAN**

SHEET NO.

**MD101**





SHEET NOTES

- 1 REMOVE EXISTING DRYER VENTS TO A POINT JUST UNDER ROOF. VENT PIPING AND PENETRATIONS THRU ROOF SHALL REMAIN. CAP VENT BELOW AND ABOVE ROOF.
- 2 EXHAUST DUCT SHALL REMAIN. REMOVE EXHAUST FAN. SALVAGE TO OWNER IF REQUIRED. PATCH ROOF.
- 3 REMOVE RANGE HOOD, DUCT AND EXHAUST FAN. SALVAGE TO OWNER, IF REQUIRED. PROVIDE SHEET METAL CAP AND R-30 BATT INSULATION ON EXISTING ROOF CURB. PREFINISHED SHEET METAL CAP TO MATCH EXISTING ROOF.
- 4 EXISTING DIFFUSERS, GRILLES ETC. SHALL REMAIN.
- 5 REMOVE EXISTING EXHAUST FAN. RE-USE EXISTING CURB IF COMPATIBLE OR PROVIDE NEW CURB FOR NEW FAN. FIELD VERIFY.
- 6 EXISTING DUCT SHALL REMAIN. FIELD VERIFY LOCATION.
- 7 CAP EXISTING STEAM AND CONDENSATE PIPING. PROVIDE NEW END OF MAIN F & T TRAP. SEE DETAIL.
- 8 CAP EXISTING COMPRESSED AIR PIPING.
- 9 REMOVE EXISTING DRYERS AND RELOCATE TO NEW LOCATION SHOWN ON SHEET ME101.
- 10 EXISTING STAINLESS STEEL CANOPY SHALL REMAIN.
- 11 EXISTING 1-1/4" HPS AND HPR SHALL REMAIN.
- 12 REMOVE EXISTING 1-1/4" HPS, PIPING, VALVES, HOSES, HANGERS, ETC.
- 13 REMOVE EXISTING WATER PIPING, VALVES, HOSES, HANGERS, ETC. CAP AT WALL PENETRATIONS.
- 14 EXISTING FLOOR SINK SHALL REMAIN.
- 15 EXISTING CULINARY HOT AND COLD WATER PIPING SHALL REMAIN.
- 16 EXISTING CULINARY COLD WATER PIPING SHALL REMAIN.

- GENERAL NOTE:
1. PHASE ONE BUILDING DEMOLITION AND REMODEL TO BE COMPLETE BEFORE MOVING ONTO THE NEXT. ONLY ONE BUILDING IS TO BE WITHOUT DRYERS AT ONE TIME.



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AMERICAN FORK, UTAH

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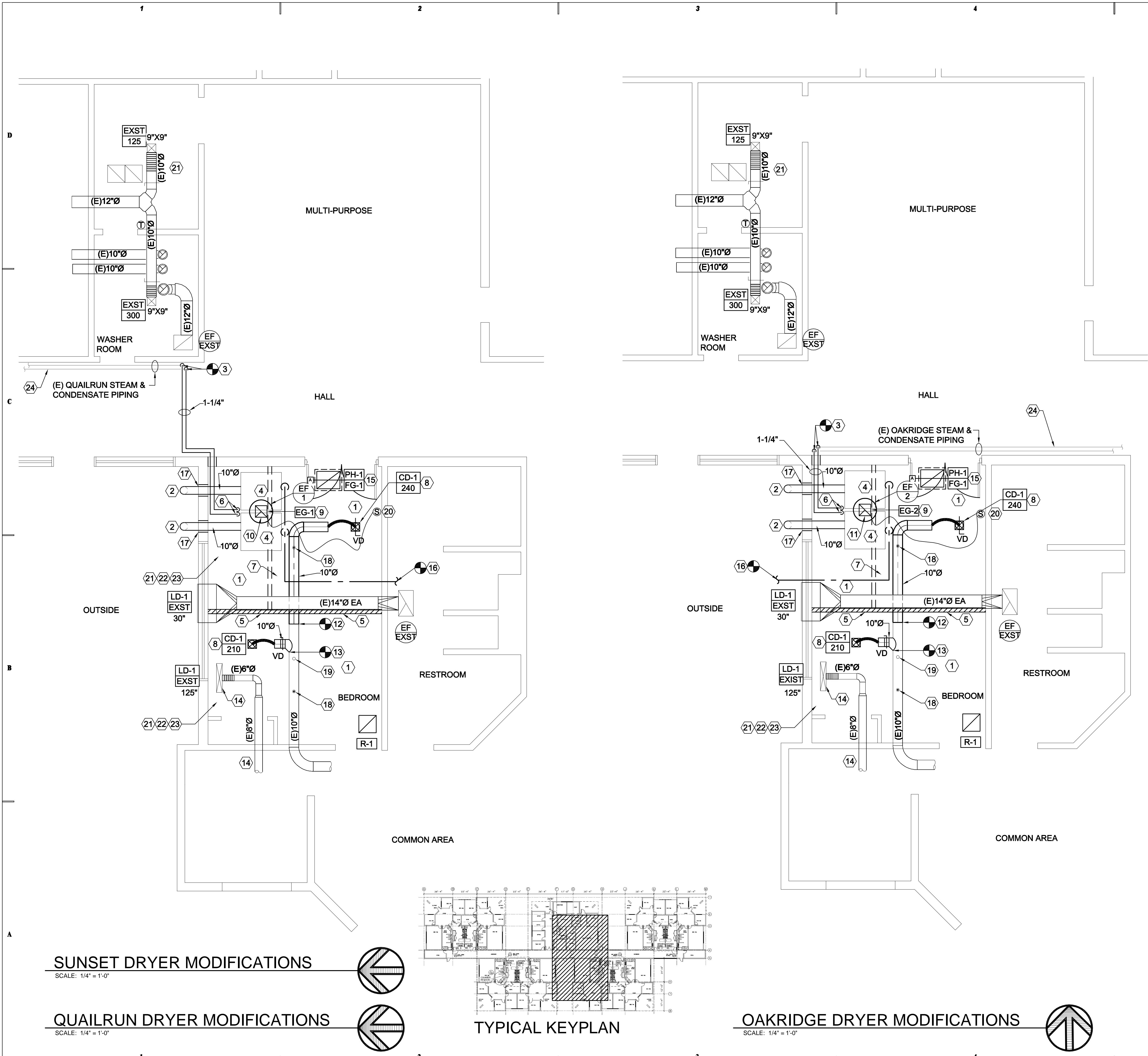
SHEET TITLE

**RAINTREE AND WILLOW  
CREEK MECHANICAL  
PLAN**

SHEET NO.

**MD102**





## SHEET NOTES

- RELOCATE FIRE SPRINKLER HEADS AND DETECTORS AS REQUIRED TO ADEQUATELY PROTECT SPACE.
- ROUTE NEW 10"Ø DRYER EXHAUST VENTS THROUGH SIDEWALL TO OUTSIDE. SEE PHOTO C1/ME501 AND DETAIL C3/ME501.
- TIE INTO EXISTING STEAM PIPING IN HALL. ROUTE NEW 1-1/4" HPS AND HPC TO NEW DRYER LOCATION AS SHOWN. TAKE OFF FROM TOP OR FROM TOP 45° OF PIPING.
- RELOCATE EXISTING DRYERS TO NEW LOCATION SHOWN.
- NEW WALL PROVIDED BY G.C. COORDINATE WITH ARCHITECTURAL PLANS AND BUILDING OWNER.
- SEE DETAIL B4/ME501 FOR STEAM CONNECTION TO DRYERS.
- PROVIDE 4" STUD WALL AND FASCIA. SEE DETAIL B3/ME501.
- NEW CEILING DIFFUSERS, COORDINATE LOCATION WITH LIGHTS.
- NEW EXHAUST GRILLE CENTERED ABOVE DRYERS.
- 10x8 OR 10"Ø EXHAUST DUCT RISER TO NEW EXHAUST FAN EF-1 ON ROOF.
- 10x8 OR 10"Ø EXHAUST DUCT RISER TO NEW EXHAUST FAN EF-2 ON ROOF.
- CONNECT TO EXISTING 10"Ø DUCT AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION.
- CONNECT NEW 9" DUCT INTO EXISTING 10"Ø DUCT IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION. SEE DETAIL A1/ME501.
- EXISTING DUCT AND LINEAR DIFFUSER FROM FAN COIL UNIT SHALL REMAIN.
- 24x18 FRESH AIR GRILLE AND AUTO-DAMPER (ELECTRIC) FROM FRESH AIR PENTHOUSE PH-1 ON ROOF. WHEN DRYERS ARE OPERATING DAMPERS ARE OPEN. WHEN DRYERS ARE OFF DAMPERS SHALL CLOSE.
- PROVIDE COLD WATER LINE TO DRYER FIRE SUPPRESSION. SEE DETAIL ME501. FIELD VERIFY LOCATION OF EXISTING CW LINE.
- CORE DRILL THROUGH EXISTING WALL. PROVIDE OPENING 2" LARGER IN DIAMETER THAN THE 10"Ø VENT. SEAL AIR AND WATER TIGHT.
- EXISTING FIRE SPRINKLER HEAD SHALL REMAIN.
- EXISTING SMOKE DETECTOR SHALL REMAIN.
- PROVIDE SPEED CONTROL DIAL FOR NEW EXHAUST FAN. COORDINATE WITH USER FOR EXACT LOCATION.
- COORDINATE WITH G.C. TO PATCH/REPAIR CEILING AND WALLS AS NECESSARY.
- COORDINATE WITH DESIGN BUILD ELECTRICIAN TO REPLACE LIGHTS, RELOCATE, AND PROVIDE NEW AS NECESSARY IN RENOVATED ROOMS THIS AREA. DESIGN BUILD ELECTRICIAN SHALL ALSO PROVIDE NEW SMOKE DETECTOR IN NEW LAUNDRY ROOM, AND VERIFY PROPER OPERATION OF EXISTING DETECTOR IN BEDROOM. NECESSARY.
- COORDINATE WITH FIRE SPRINKLER CONTRACTOR TO PROVIDE NEW SPRINKLER LAYOUT IN REMODELED ROOMS. SEE SECTION 15300. TIE NEW HEADS INTO EXISTING SYSTEM.
- PROVIDE NEW 2" EXPANSION JOINTS IN EXISTING STEAM AND CONDENSATE PIPING IN HALL. PROVIDE TRANSITIONS TO EXISTING PIPING AS NECESSARY. LOCATE NEW JOINTS IN MIDDLE OF HALLWAY AND PROVIDE ANCHORS TO WALL AT EACH END. PROVIDE GUIDES UP STREAM AND DOWN STREAM OF NEW EXPANSION JOINTS. PER JOINT MANUFACTURERS RECOMMENDATIONS.

### GENERAL NOTE:

- THIS PAGE CONSISTS OF 3 PROJECTS IN 3 SEPARATE BUILDINGS.



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## PROJECT NAME & ADDRESS

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DEVELOPMENT  
CENTER DRYER  
RELOCATION**

DFCM# 08311410

AMERICAN FORK, UTAH

MARK	DATE	REVISION

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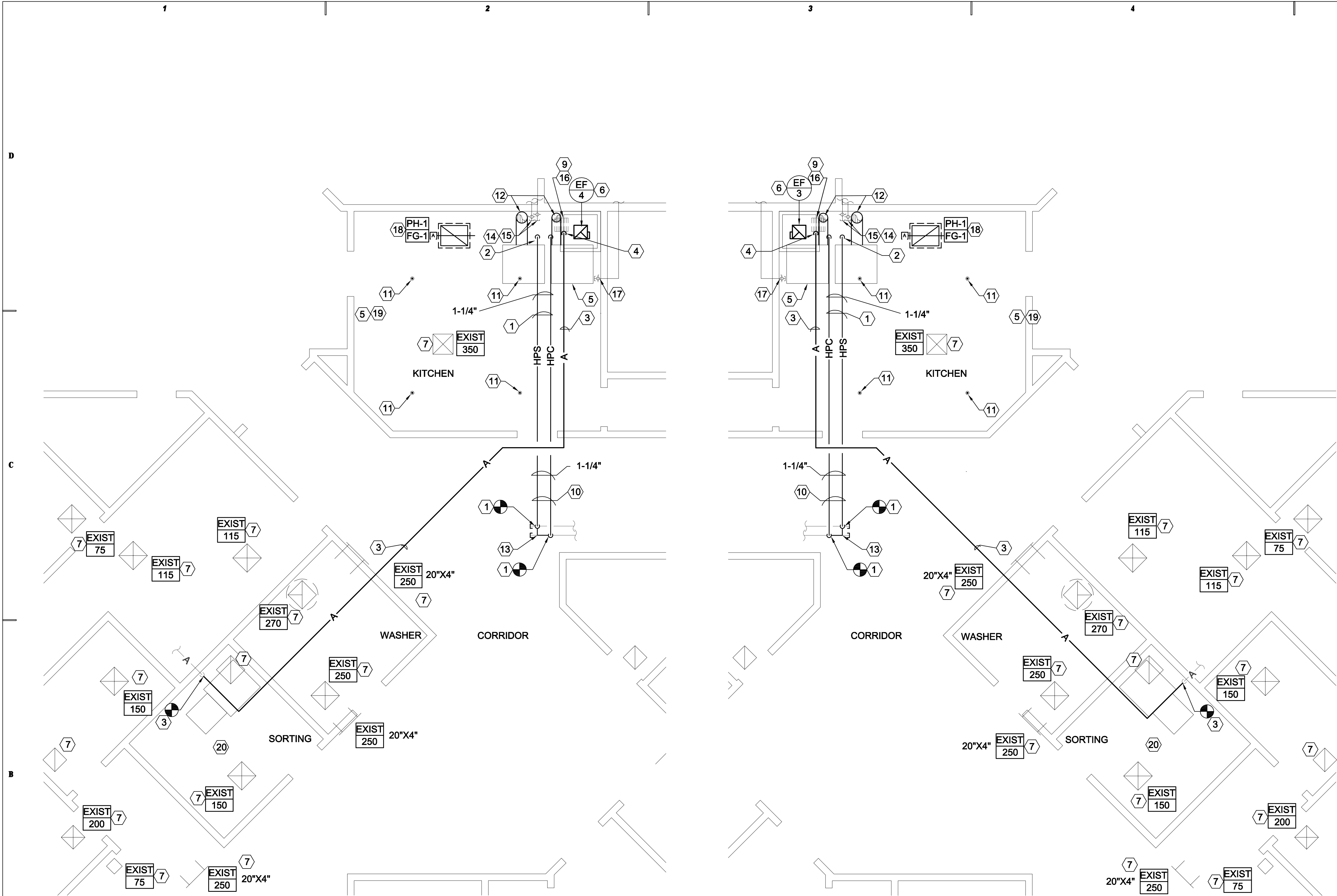
SHEET TITLE

**OAKRIDGE AND QUAILRUN  
MECHANICAL  
PLAN**

SHEET NO.

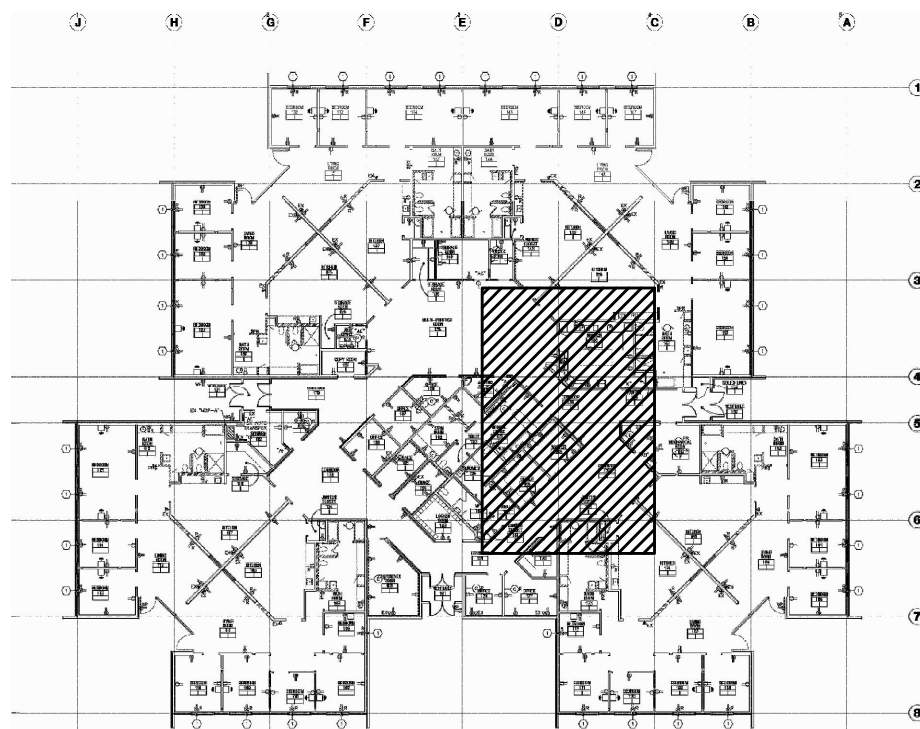
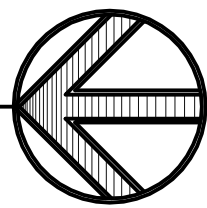
**ME101**





RAINTREE FLOOR PLAN

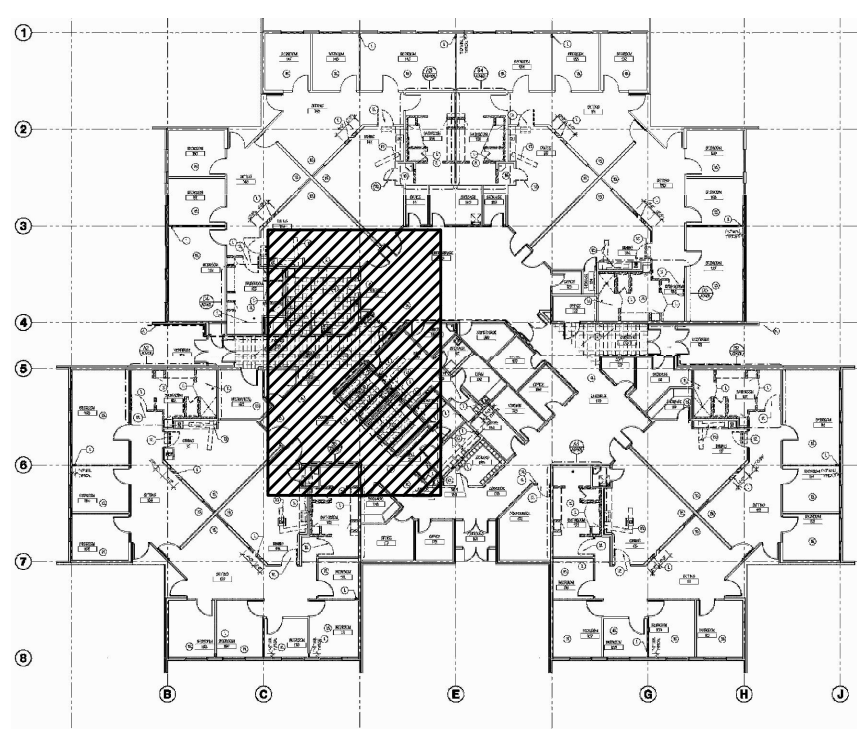
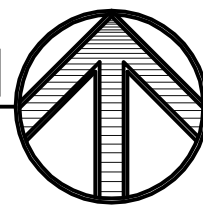
SCALE: 1/4" = 1'-0"



KEY PLAN

WILLOWCREEK FLOOR PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

## SHEET NOTES

- CONNECT NEW HPS AND HPR TO EXISTING AT THIS LOCATION AND EXTEND OVERHEAD TO RELOCATED DRYERS. FIELD VERIFY LOCATION OF EXISTING PIPING.
- SEE DETAIL A4/ME501 FOR STEAM CONNECTION TO RELOCATED DRYERS.
- CONNECT NEW COMPRESSED AIR LINE TO EXISTING AND EXTEND OVERHEAD TO RELOCATED DRYERS. FIELD VERIFY ROUTING.
- SEE DETAIL A4/ME501 FOR COMPRESSED AIR CONNECTION.
- LOCATE EXISTING DRYERS AT EXISTING KITCHEN HOOD WHERE POSSIBLE..
- PROVIDE NEW EXHAUST FAN ON ROOF. USE EXISTING ROOF CURB IF POSSIBLE. IF EXISTING ROOF CURB CANNOT BE REUSED, REMOVE AND PROVIDE NEW CURB USING EXISTING ROOF OPENING. RE-USE EXISTING DUCT AND CANOPY.
- EXISTING CEILING DIFFUSER AND RETURN, SUPPLY AND EXHAUST GRILLE SHALL REMAIN.
- WILLOW CREEK AND RAIN TREE ARE MIRROR IMAGES OF EACH OTHER. FIELD VERIFY ALL CONDITIONS AND LOCATIONS OF EXISTING PIPING, FIRE SPRINKLER PIPING, HEADS, LIGHTS, FLOOR SINKS ETC.
- IF EXISTING FLOOR SINKS ARE IN THE WAY OF LOCATING THE DRYERS, CONTRACTOR SHALL FILL SINK WITH CONCRETE EVEN WITH EXISTING FLOOR.
- IF THE ONLY ROUTING OF PIPING IS IN THE CORRIDOR PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE AND INSULATION PAINTED THE SAME COLOR AS THE CORRIDOR CEILING.
- FIRE SPRINKLER HEADS SHALL REMAIN.
- EXTEND 10"Ø DRYER VENT UP TO ROOF. SEE DETAIL C3/ME501.
- CUT EXISTING STEAM AND CONDENSATE PIPING AND MAKE NEW CONNECTIONS AT THIS APPROXIMATE LOCATION. PROVIDE END OF MAIN TRAP. SEE DETAIL C4/ME501.
- CONNECT TO EXISTING COLD WATER PIPING. EXTEND TO FIRE SUPPRESSION CONNECTION ON DRYER. PROVIDE WITH NEW PRV VALVE, 25 - 75 PSIG.
- EXISTING CULINARY HOT AND COLD WATER PIPING SHALL REMAIN.
- EXISTING FLOOR SINK SHALL REMAIN.
- EXISTING CULINARY COLD WATER PIPING SHALL REMAIN.
- 24x18 FRESH AIR GRILLE AND AUTO-DAMPER (ELECTRIC) FROM FRESH AIR PENTHOUSE PH-1 ON ROOF. WHEN DRYERS ARE OPERATING DAMPERS ARE OPEN. WHEN DRYERS ARE OFF DAMPERS SHALL CLOSE.
- PROVIDE SPEED CONTROL DIAL FOR NEW EXHAUST FAN. COORDINATE WITH USER FOR EXACT LOCATION.
- COORDINATE WITH G.C. TO PATCH/REPAIR CEILING AND WALLS AS NECESSARY.



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## PROJECT NAME & ADDRESS

**UTAH STATE  
DEVELOPMENT  
CENTER DRYER  
RELOCATION**

DFCM# 08311410

AMERICAN FORK, UTAH

MARK	DATE	REVISION
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PROJECT MANAGER:

SLW

DRAWN BY:

STAFF

CHECKED BY:

SLW

DATE:

12/12/08

WHW JOB NO.:

06039

SHEET TITLE

**RAINTREE AND WILLOW  
CREEK MECHANICAL  
PLAN**

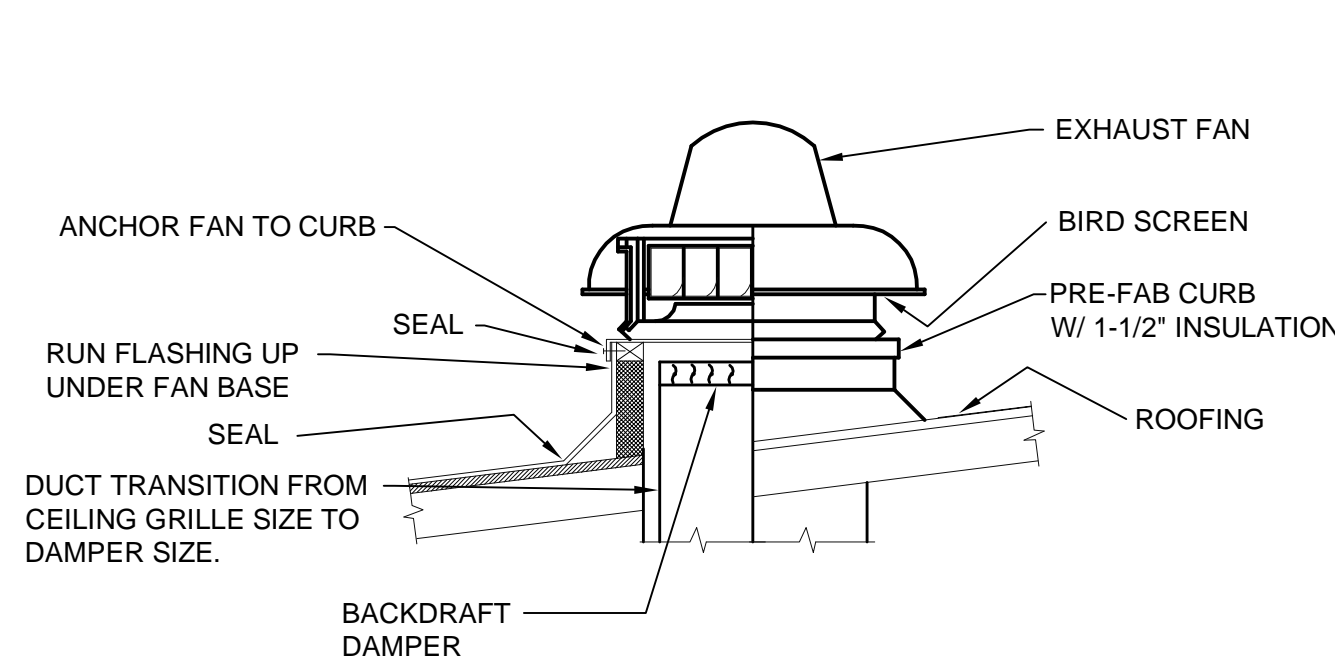
SHEET NO.

**ME102**

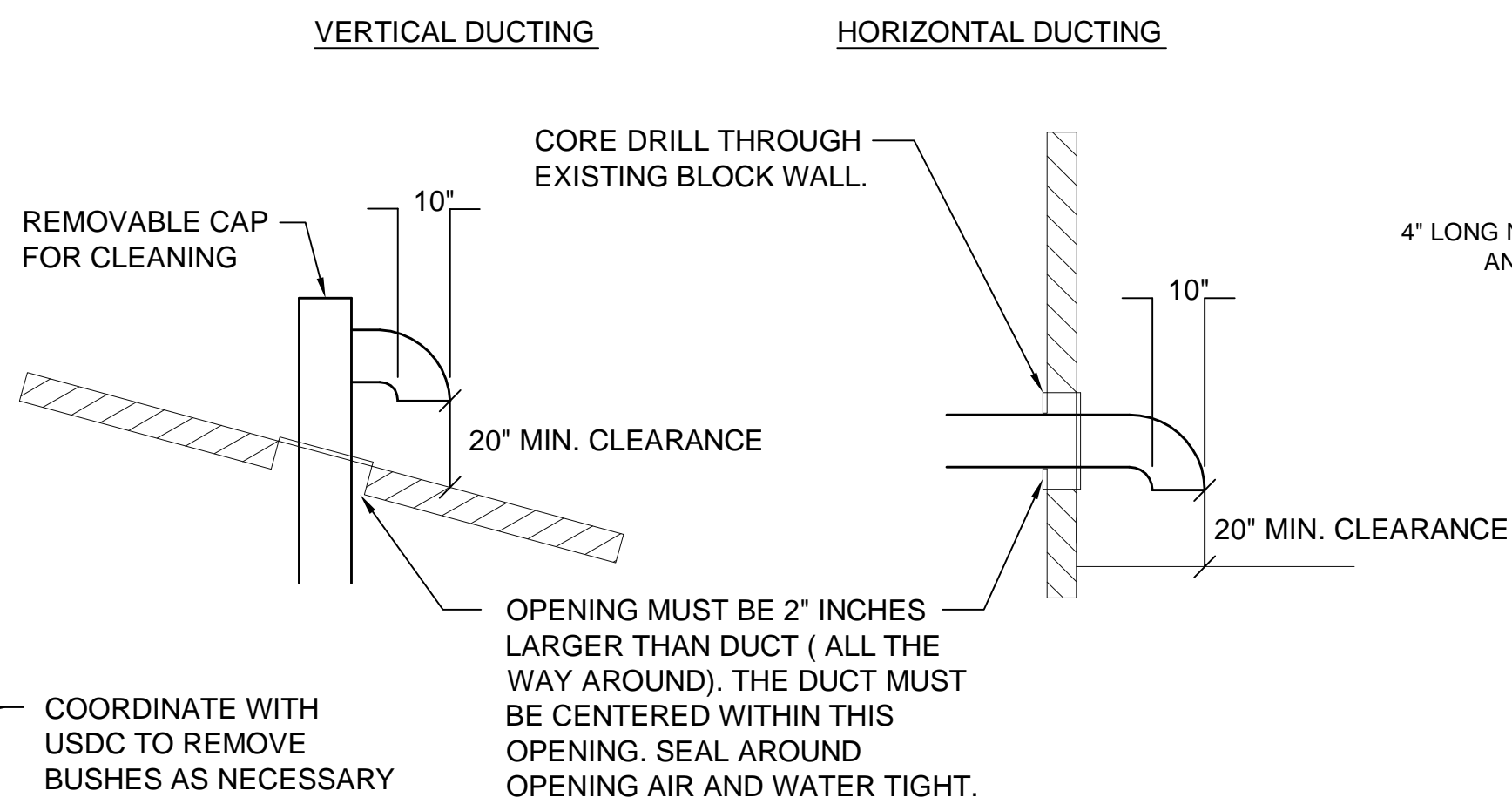




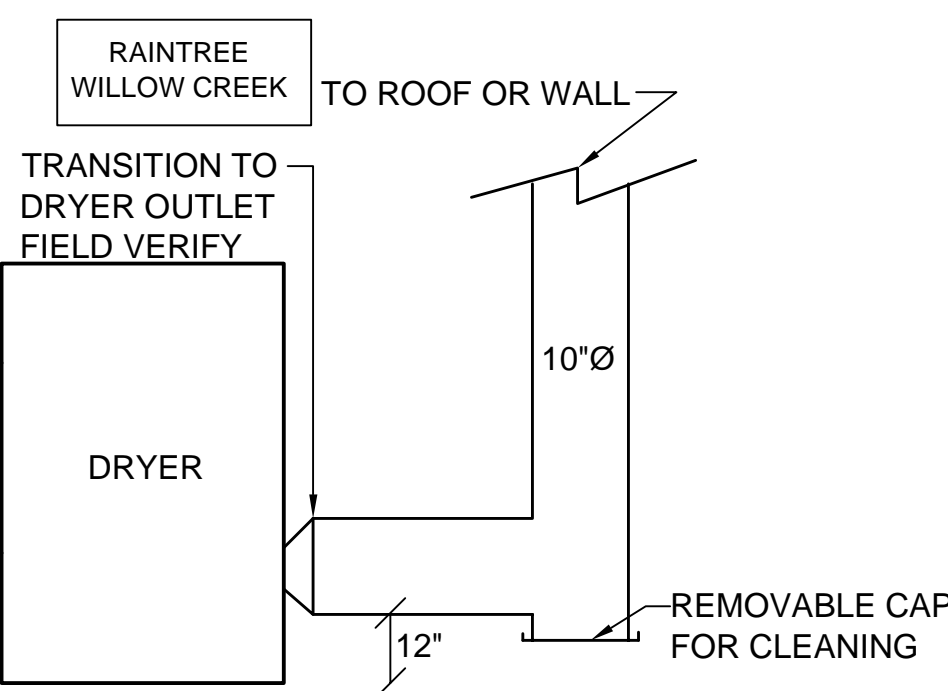
**C1** EXTERIOR PHOTO OF OAKRIDGE NEW DRYER LOCATION  
SCALE: NONE



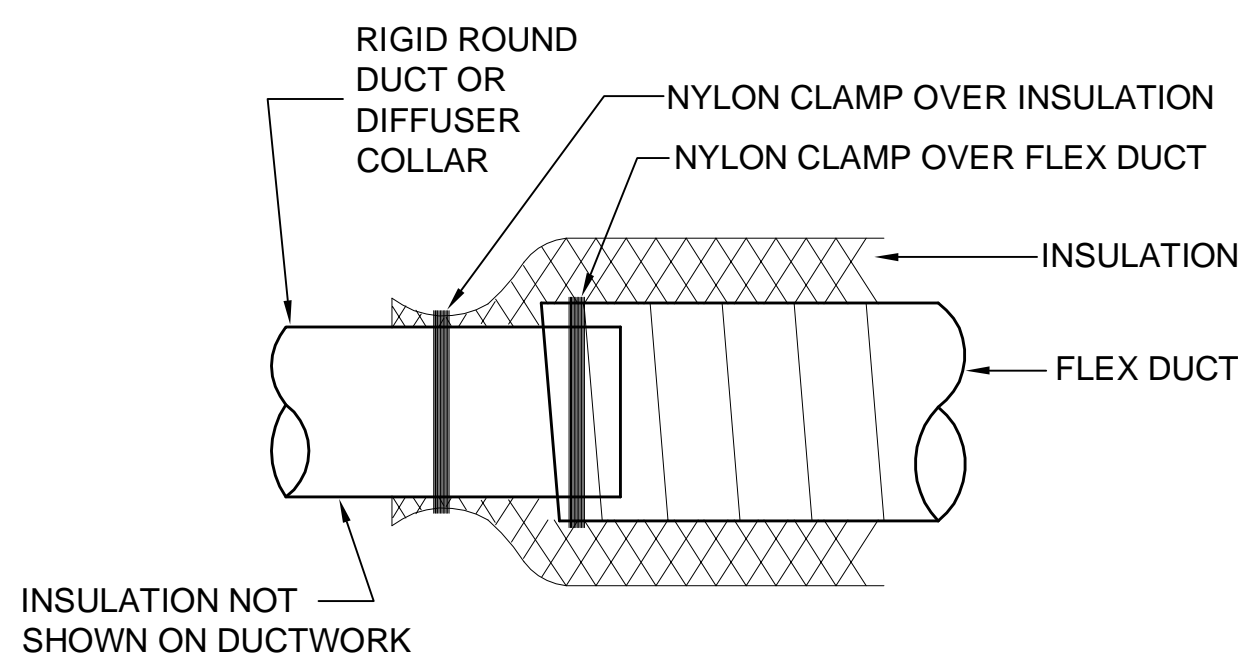
**B1** ROOF MOUNTED EXHAUST FAN DETAIL  
SCALE: NONE



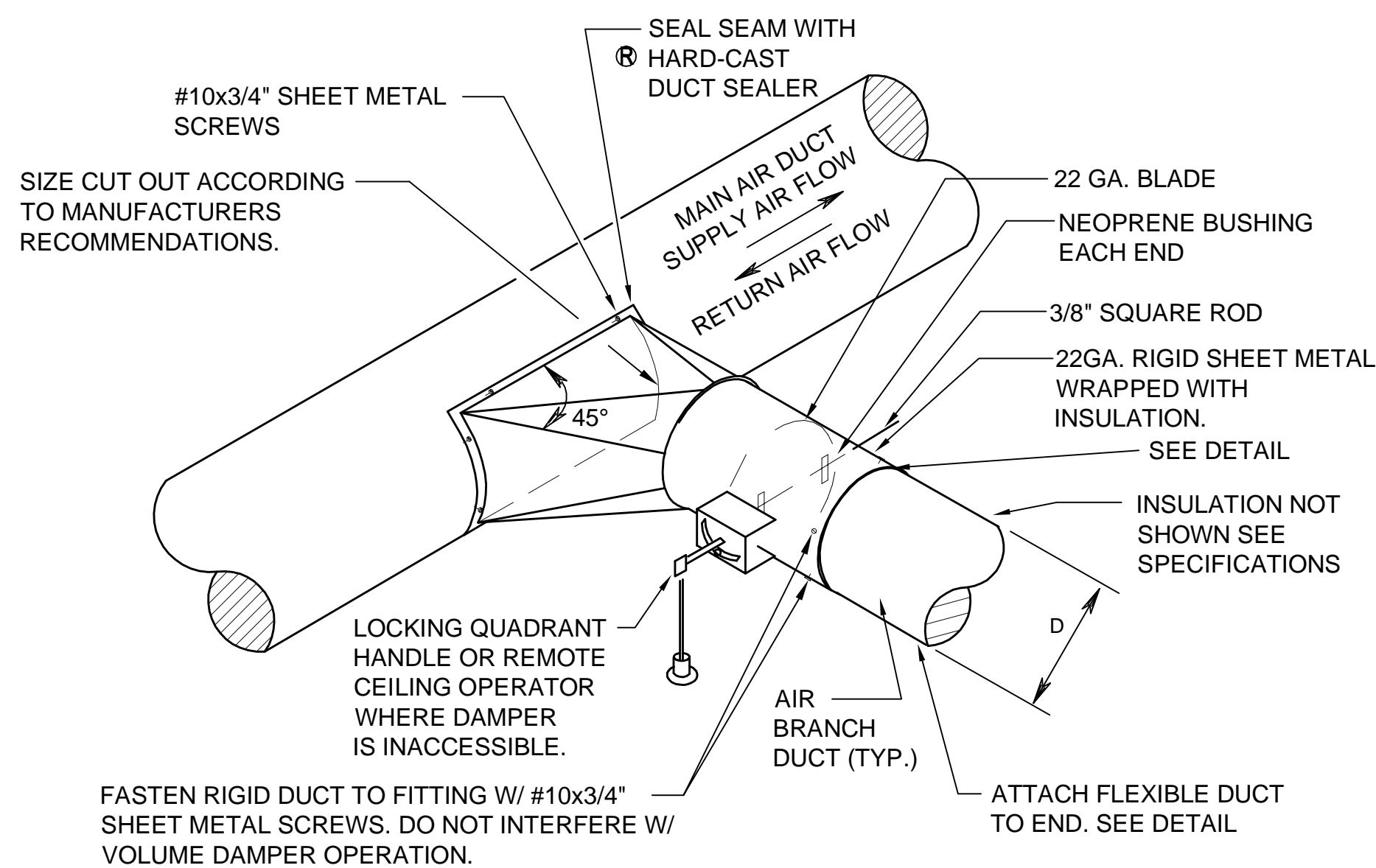
**C3** DRYER VENTING DETAIL  
SCALE: NONE



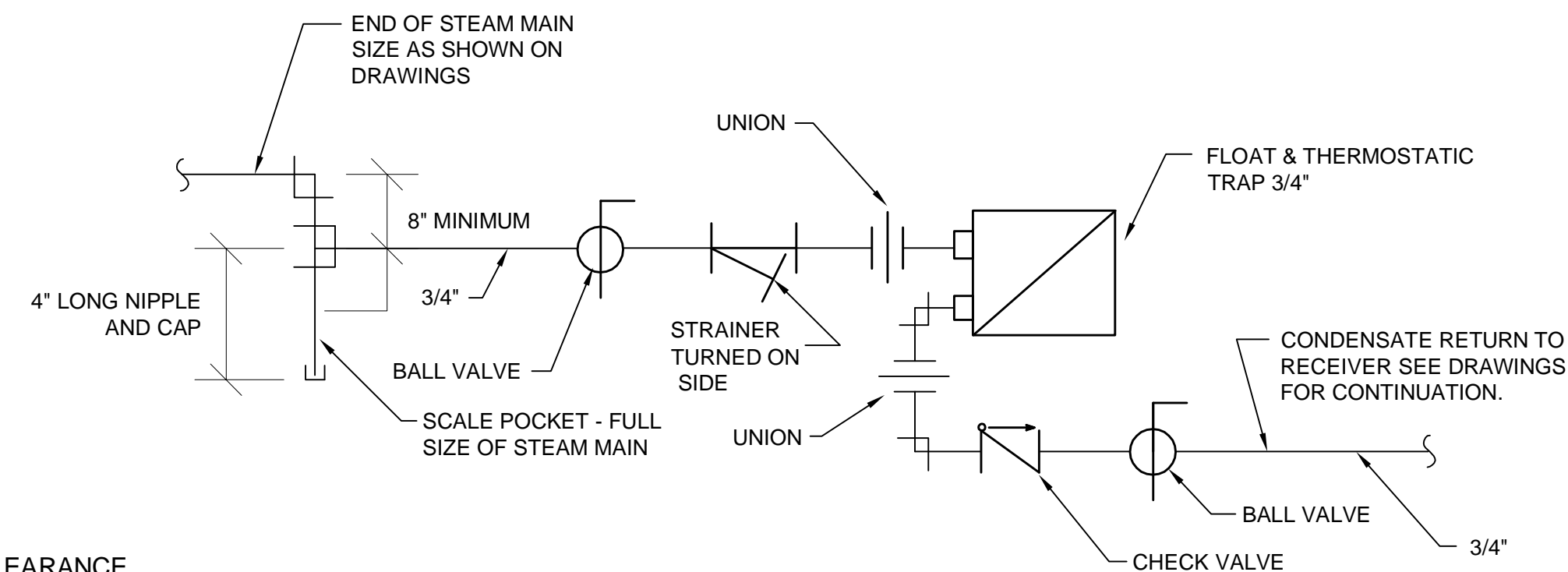
**B2** VERTICAL DRYER VENT DETAIL  
SCALE: NONE



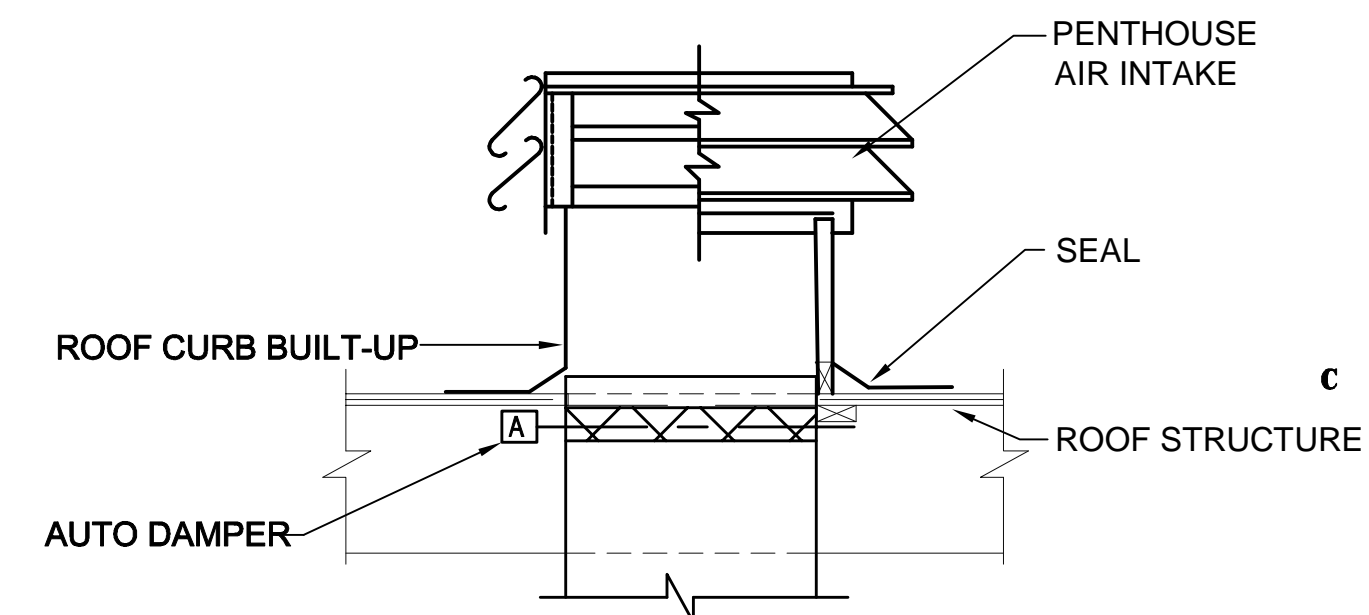
**A1** DETAIL  
SCALE: NONE



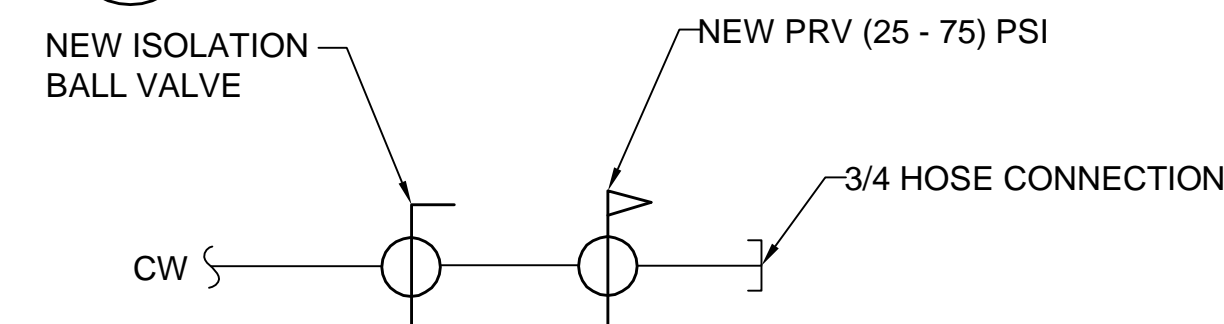
**A1** ROUND-TO-ROUND DUCT CONSTRUCTION DETAIL  
SCALE: NONE



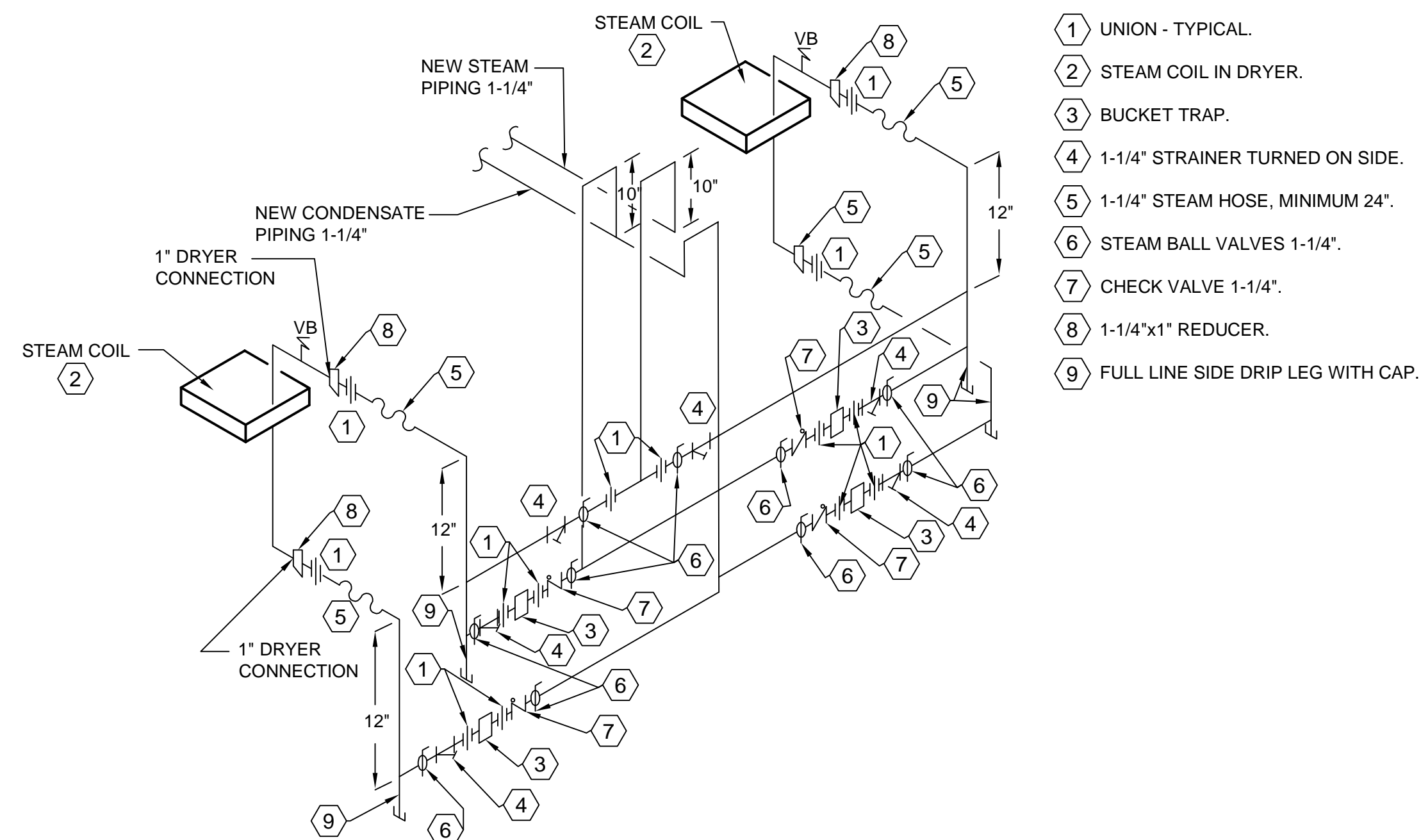
**D4** END OF MAIN OR RISE & DRIP CONNECTION DETAIL  
SCALE: NONE



**C4** PENTHOUSE DETAIL  
SCALE: NONE



**B4** DRYER FIRE SUPPRESSION CONNECTION DETAIL  
SCALE: NONE



**B4** STEAM DRYER SYSTEM DETAIL  
SCALE: NONE



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PROJECT NAME & ADDRESS

**UTAH STATE  
DEVELOPMENT  
CENTER DRYER  
RELOCATION**  
DFCM# 08311410

AMERICAN FORK, UTAH

MARK DATE REVISION

PROJECT MANAGER:  
**SLW**  
DRAWN BY:  
**STAFF**  
CHECKED BY:  
**SLW**  
DATE:  
**12/12/08**  
WHW JOB NO.:  
**06039**  
SHEET TITLE

MECHANICAL DETAILS

SHEET NO.

**ME501**




D

C

B

A

DIFFUSER SCHEDULE								
SYMBOL	TYPE	MAX CFM	FACE SIZE	NECK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
<div>D-1</div> <div>CFM</div>	CEILING	250	9/9	8"Ø	HARD	4--WAY		1,2
1. MAXIMUM NC 25 AT CFM LISTED.								
2. TRANSITION AS REQUIRED TO DUCT WORK SHOWN ON PLAN.								

REGISTER, LOUVER & GRILLE SCHEDULE							
SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
<div>R-1</div>	CEILING	RETURN	250	10/10	10/10	HARD	1,2,4
<div>EG-1</div>	CEILING	EXHAUST	600	14/14	14/14	HARD	1,2,4
<div>FG-1</div>	CEILING	FRESH AIR	1200	18/24	18/24	HARD	1,2,4
<div>PH-1</div>	ROOF	FRESH AIR	1200	18/24/15	18/24/15	N/A	3,5,6
REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:							
1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.							
2. SHALL BE PRICE 535 OR EQUAL BY OTHER APPROVED MANUFACTURERS.							
3. SHALL BE RUSKIN PH811 OR EQUAL BY OTHER APPROVED MANUFACTURES.							
4. FINISH SHALL BE OFF-WHITE BAKED ENAMEL.							
5. PROVIDE WITH BIRD SCREENS.							
6. FINISH SHALL BE BAKED ENAMEL WITH COLOR BY OWNER.							

EXHAUST FAN SCHEDULE										
SYMBOL	MANUFACTURER & MODEL No.	SERVES	C.F.M.	STATIC PRESSURE IN. WG.	MAX NOISE SONES	MOTOR			OPER. WT. (LBS)	COMMENTS
						V - Ø - Hz	W	RPM		
<div>EF</div> <div>1</div>	COOK ACED 100C15DH	DRYER ROOM	500	0.2	7	120/1/60	104	1190	30	1,2,3
<div>EF</div> <div>2</div>	COOK ACED 100C15DH	DRYER ROOM	500	0.2	7	120/1/60	104	1190	30	1,2,3
<div>EF</div> <div>3</div>	COOK ACED 100C15DH	DRYER ROOM	500	0.2	7	120/1/60	104	1190	30	1,2,3
<div>EF</div> <div>4</div>	COOK ACED 100C15DH	DRYER ROOM	500	0.2	7	120/1/60	104	1190	30	1,2,3
1. PROVIDE FACTORY INSTALLED DISCONNECT.										
2. PROVIDE VARIABLE SPEED CONTROL DIAL IN ROOM.										
3. PROVIDE WITH BACKDRAFT DAMPER AND CURB.										



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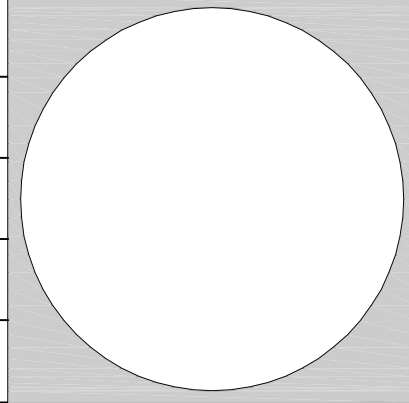
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SHEET TITLE  
**MECHANICAL SCHEDULE**

SHEET NO.  
**ME601**